

GEOCOMPOSITE GC6 & GC8



GEOCOMPOSITE – HEAT BONDED GEONET & GEOTEXTILE

		GC6S / GC6D	GC8S / GC8D	
PROPERTIES	TEST METHOD	IMPERIAL		QUALIFIER
GEONET				
THICKNESS	ASTM D 5199	200 Mil	200 Mil	³ MAV
CARBON BLACK	ASTM D 4218	2.0%	2.0%	MAV
TENSILE STRENGTH	ASTM D 7179	45 lb/in	45 lb/in	MAV
MELT FLOW	² ASTM D 1238	1.0 g/10 min	1.0 g/10 min	Maximum
DENSITY	ASTM D 1505	0.94 g/cm ³	0.94 g/cm ³	MAV
¹ TRANSMISSIVITY	ASTM D 4716	9.67 (2.0 x 10 ⁻³) gal/min/ft (m ² /sec)	9.67 (2.0 x 10 ⁻³) gal/min/ft (m ² /sec)	MAV
GEOCOMPOSITE		6 OZ/YD²	8 OZ/YD²	
PLY ADHESION	ASTM D7005	1.00 lb/in	1.00 lb/in	MAV
¹ TRANSMISSIVITY (D)	ASTM D4716	TN 220-2-6 0.48 (1.0 x 10 ⁻⁴) gal/min/ft (m ² /sec)	TN 220-2-8 0.48 (1.0 x 10 ⁻⁴) gal/min/ft (m ² /sec)	MAV
¹ TRANSMISSIVITY (S)	ASTM D4716	TN 220-1-6 4.83 (1.0 X 10 ⁻³) gal/min/ft (m ² /sec)	TN 220-1-8 4.83 (1.0 X 10 ⁻³) gal/min/ft (m ² /sec)	MAV
GEOTEXTILE				
FABRIC WEIGHT	ASTM D5261	6 oz/yd ²	8 oz/yd ²	⁴ MARV
GRAB TENSILE	ASTM D4632	160 lb	225 lb	MARV
GRAB ELONGATION	ASTM D4632	50 %	50 %	MARV
TRAPEZOID TEAR	ASTM D4533	65 lb	90 lb	MARV
CBR PUNCTURE	ASTM D6241	450 lb	600 lb	MARV
⁵ WATER FLOW	ASTM D4491	125 gpm/ft ²	100 gpm/ft ²	MARV
⁵ PERMITTIVITY	ASTM D4491	1.63 sec ⁻¹	1.26 sec ⁻¹	MARV
⁵ PERMEABILITY	ASTM D4491	0.30 cm/sec	0.30 cm/sec	MARV
AOS	ASTM D4751	70 US Sieve	80 US Sieve	MAxARV

¹ Transmissivity measured using water at 21 ± 2°C (70 ± 4°F) with a gradient of 0.1 and a confining pressure of 10000 psf between steel plates after 15 minutes. Values may vary with individual labs.

D - Double Sided, S - Single Sided

² Condition 190/2;16

³ Minimum average value.

⁴ MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.

⁵ At the time of manufacturing. Handling may change these properties.

The GC-Series consist of GC6 and GC8 geocomposite drainage products manufactured with a three-dimensional bi-planar high-density geonet heat bonded on one side or both sides with a nonwoven polypropylene geotextile. The GC-Series is produced in a factory controlled environment, and promotes easy installation as a light-weight environmental-friendly solution to traditional drainage materials such as granular stones, gravel, or sand. The GC-Series is manufactured in a variety of widths dependent upon specific project requirements. The nonwoven geotextile fabric can be heat bonded on one side (single) or both sides (double) of the GeoNet.

Geonets and Geocomposites both function well as cost-effective drainage systems with excellent hydraulic properties. GC6 and GC8 perform extremely well on steep slopes, provides higher durability, and less expense when compared to common sand and gravel systems.

GEOCOMPOSITE

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. VIAFLEX MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at www.viaflex.com

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